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... between them specifies a 1:n join relationship that ... attribute relationships in a denormalized table cannot be ... Specifying them in a dimension enables the Oracle ...

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... the transaction data along different dimensions and levels. ... specified by the fid = lid join predicate, applies ... records coming from the Loc table, computes the ...

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P Vassiliadis - Scientific and Statistical Database Management, 1998. ..., 1998 - ieeexplore.ieee.org

... joins actually take place; yet they are made between a fact table and the tables representing the dimensions of the cube. Techniques like star-join [7] can be ...

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... is useful for logical design: in fact, for each optional attribute, an extra record reporting a dummy value will be added to the corresponding dimension table. ...

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... Even if the **join** result is pre-computed and stored for ... interest and F the fact **table** which contains the aggregated results for the spatial **dimension** at the ...

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P Vassiliadis, T Sellis - ACM SIGMOD Record, 1999 - portal.acm.org

... construction and destruction of cubes, **join** and restriction ... the notions of **dimensions** and **f-tables**. ... constructed from hierarchies of **dimension** levels, whereas f ...

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... Relations Denormalized Representation The idea in the denormalized representation is to build a single **table** containing all the rollups in the **dimension**. ...

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 Atlanta, Georgia, USA
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Authors [Dimitri Theodoratos](#) New Jersey Institute of Technology, Newark, NJ
[Aris Tsois](#) National Technical University of Athens, Athens, Greece

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↑ ABSTRACT

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple one-dimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform one-dimensional indexing methods. We present an architecture for multidimensional databases that are clustered with respect to multiple hierarchical dimensions. It is based on the star schema and is called CSB star. Then, we focus on heuristically optimizing OLAP queries over this schema using multidimensional access methods. Users can still formulate their queries over a traditional star scheme, which are then rewritten by the query processor over the CSB star. We exploit the different clustering features of the CSB star to efficiently process a class of typical OLAP queries. We detect special cases where the construction of an evaluation plan can be simplified and we discuss improvements of our technique.

↑ CITINGS 3

[Dimitri Theodoratos, Exploiting hierarchical clustering in evaluating multidimensional aggregation queries, Proceedings of the 6th ACM international workshop on Data warehousing and OLAP,](#)


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Authors [Carlos A. Hurtado](#) University of Toronto
[Alberto O. Mendelzon](#) University of Toronto
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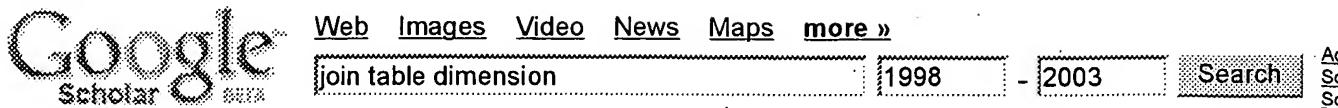
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↑ ABSTRACT

OLAP systems support data analysis through a multidimensional data model, according to which data facts are viewed as points in a space of application-related "dimensions", organized into levels which conform a hierarchy. Although the usual assumption is that these points reflect the dynamic aspect of the data warehouse while dimensions are relatively static, in practice it turns out that dimension updates are often necessary to adapt the multidimensional database to changing requirements. These updates can take place either at the structural level (e.g. addition of categories or modification of the hierarchical structure) or at the instance level (elements can be inserted, deleted, merged, etc.). They are poorly supported (or not supported at all) in current commercial systems and have not been addressed in the literature. In a previous paper we introduced a formal model supporting dimension updates. Here, we extend the model, adding a set of semantically meaningful operators which encapsulate common sequences of primitive dimension updates in a more efficient way. We also formally define two mappings (normalized and denormalized) from the multidimensional to the relational model, and compare an implementation of dimension updates using these two approaches.

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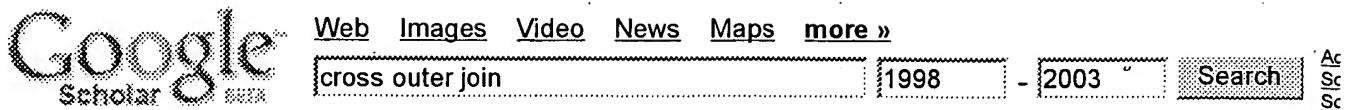
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JR Groff, PN Weinberg - 2002 - books.google.com

... 169 Outer Join Notation * 173 Joins and the SQL2 Standard 175 Inner Joins in SQL2

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175 OuterJoins in SQL2 * 178 Cross Joins and Union Joins in SQL2 * 180 ...

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R Agrawal

Complementary joints to mechanically and removably join fluid valve bodies together in fluid ... - group of 3 »

GJ Lukas, RE Berrend... - US Patent 5,881,773, 1999 - Google Patents

... complementary joints to mechanically and removably join the fluid valve ... grooves 30,

that is, of square cross section formed in adjacent outer sides 20 ...

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SRQL: Sorted Relational Query Language - group of 12 »

R Ramakrsihnan, D Donjerkovic, A Ranganathan, KS ... - Scientific and Statistical Database Management, 1998. ..., 1998 - ieeexplore.ieee.org

... of the input tables in the join condition, and our version of cross-product does not propagate these special attributes. We also include left-outer join (...

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Storage and Querying of E-Commerce Data - group of 15 »

R Agrawal, A Somanı, Y Xu - Proc. of VLDB, 2001 - dblab.ewha.ac.kr

... join(□A□□□), right outer join(□□□5□), cross product(□), difference(□), intersection(□), union(d), and aggregation ...

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Astronomical Catalogues-Simultaneous Querying and Matching - group of 5 »

HM Adorf, G Lemson, W Voges, H Enke, M Steinmetz - Astronomical Data Analysis Software and Systems XIII, 2003 - adass.org

... search results are fed into a catalogue cross-matcher developed by GAVO. The matcher

is designed to perform a probabilistic "fuzzy outer join" based on sky ...

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Supplement of Information: Data Integration by Classification of Pairs of Records - group of 2 »

M Neiling, HJ Lenz - Presented at the 24th Annual Conference of the GfKI in ..., 2000 - cis.cs.tu-berlin.de

... Unbiased error rates can be estimated by cross validation. ... where A B denotes the FULL OUTER JOIN of A and B wrt the identification process. ...

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SkyQuery: A WebService Approach to Federate Databases - group of 3 »

T Malik, AS Szalay, T Budavari, AR Thakar - Arxiv preprint cs.DB/0211023, 2002 -

arxiv.org

... (The join is akin to an **outer join** or an **inner join** based on whether the archive is a drop out or not). After this, the **Cross** match service executes its own ...

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[Joined table expression optimization by query transformation - group of 3](#)

»

YCS Chen, FL Lin, J Mukai, H Tie, Y Wang - US Patent 6,385,603, 2002 - Google Patents

... JOIN, RIGHT OUTER JOIN or FULL OUTER JOIN, the table ... inter -mediate result table,

and the join-condition is ... " query, the FROM clause produces a **cross** product of ...

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[The good into the Pot, the bad into the Crop. Preselection of Record Pairs for Database Fusion - group of 2](#)

» M Neiling, RM Muller - Institute for Information Systems, 2001 - cis.cs.tu-berlin.de

... The LEFT and RIGHT OUTER JOIN consist of the records a □ and □ b that contain only ... to im- prove the number of comparisons at A × B (the **cross**-product of ...

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C Dawes, B Thomas - 2002 - sybex.com

... Option D says 'You cannot insert new rows...'. Should be answer B not D. Flash Cards

True or False: The NATURAL and **CROSS** join types cannot be **outer** joins. ...

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R Agrawal, A Somani, Y Xu - Proc. of VLDB, 2001 - dblab.ewha.ac.kr

... X For fixed-width fields (eg INTEGER), the size of a null value is same as a non-null value. ... Its join with a true horizontal table ΔY having the scheme ...

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ASML Hoque - Proceedings of the First EurAsian Conference on Information ..., 2002 - Springer

... But at higher non-null density region, 1-ary bit-array ... The performance of this join operation depends on the physical ... key attribute of a 3-ary table has been ...

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H Holstein, B Li - Proc. British Machine Vision Conference, 2002 - bmva.ac.uk

... identify an arbitrary pose from 3D low density feature points ... searching efficiency, the column of non-null candidates for a ... If a join point in the segment P s ...

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M Wang, XS Wang - Proceedings of the 2002 ACM symposium on Applied computing, 2002 - portal.acm.org

... due to the large number of join operations involved ... the number of entries (null or non- null) of the ... For example, the overall density of the schema decomposition ...

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NJA Harvey, MB Jones, S Saroiu, M Theimer, A ... - Proceedings of USITS, 2003 - research.microsoft.com

... the SkipNet architecture, including how to route in SkipNet, and how to join and leave a ... Each node's set of pointers is called its routing table, or R-Table ...

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G Graefe, U Fayyad, S Chaudhuri - Proceedings of the Fourth International Conference on ..., 1998 - research.microsoft.com

... of cases over which the A i has non-NULL value is ... attention on the case of a uniform density d (for ... the SQL language standard, eg, the outer join operations in ...

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S Attnafu, L Brunie, H Kosch - Database Conference, 2001. ADC 2001. Proceedings. 12th ..., 2001 - ieeexplore.ieee.org

... The relational selection and join operations have been used ... the user's needs and the data point **density** of the ... It can have a **non-null** value in intermediate ta ...
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F Naumann, JC Freytag - 2000 - informatik.hu-berlin.de
... merged with the union-merge operator in the result **table**. ... to quantify the results of the **join** merge and ... the number of attribute values in the result (**density**). ...
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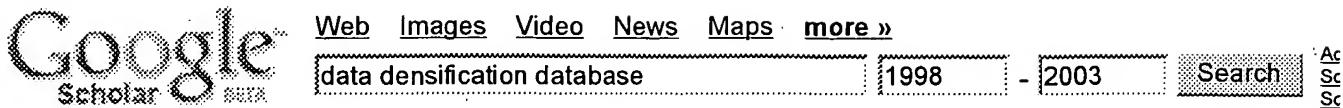
[Dynamic querying of streaming data with the dQUOB system - group of 10 »](#)
B Plale, K Schwan - Parallel and Distributed Systems, IEEE Transactions on, 2003 - ieeexplore.ieee.org
... of interest occurs such as the ozone **density** over the ... the result of the query is a **nonnull** set. ... Specifically, our overall goal is to maintain **join** windows at a ...
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[Similarity-based operators and query optimization for multimediadatabase systems - group of 4 »](#)
S Atnafu, L Brunie, H Kosch - Database Engineering & Applications, 2001 International ..., 2001 - ieeexplore.ieee.org
... of other **tables** during binary operations such as similarity-based **join**. P has a value null in the base **tables**, but a **non-null** value in the resulting **table** of a ...
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BJ Reardon - 1998 - citeseer.ist.psu.edu

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S Bhaduri

Metal matrix composites in industry: an overview

A Mortensen - MMC ASSESS Final Presentation, MMC VIII Conference, London, 2001 - mmc-assess.tuwien.ac.at

... is to present a **database** listing today ... sintering, hot pressing, HIP, extrusion or roll **densification**, ...) ... have been in good faith in providing facts and **data**. ...

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Modeling growth and **densification** processes in suburban regions--simulation of landscape transition ... - group of 4 »

W Loibl, T Toetzer - Environmental Modelling & Software, 2003 - systemsresearch.ac.at

... If **densification** is below a certain critical level the ... allows to define, which input **data** sets shall be loaded – a MS Access **database**™ with statistical ...

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Pressure and cooling rate-induced **densification** of atactic polystyrene - group of 3 »

R Pantani - Journal of Applied Polymer Science, 2003 - doi.wiley.com

... (1), as Taken From C-Mold99.1 Database, Describing the ... **DENSIFICATION OF ATACTIC**

POLYSTYRENE ... columns of NaCl and water kept at 296 K. The density **data** shown in ...

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T Podobnikar, Z Stancic, K Oščir - ... Cooperation and Technology Transfer: Proceedings of the ..., 2000 - zrc-sazu.si

... and lines for terrain details, - **densification** (condensing) of the model with scattered **data** as it ... it is necessary to produce a “DTM **database**” that must ...

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Low-cost **densification** of permanent GPS networks for natural hazard mitigation

C Rizos, S Han, L Ge, H Chen, Y Hatanaka, K Abe - 1999 - citeseer.ist.psu.edu

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Cached - Web Search

Three-dimensional outlier detection for GPS networks and their **densification** via the BLIMPBE ...

KB Snow, B Schaffrin - GPS Solutions, 2003 - Springer

... for GPS networks and their **densification** via the BLIMPBE approach ... RINEX **Data** for

the six CORS were retrieved from a NGS database for the same days. ...

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PETM Tomsik, American Institute of Chemical ... - 2000 - gltrs.grc.nasa.gov

... access to the NASA STI Database, the largest ... the STA will provide the data necessary for full-scale implementation of propellant densification technology for ...

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[Fusion techniques for environmental database construction](#)

T Laurencot - Information Fusion, 2000. FUSION 2000. Proceedings of the ..., 2000 - ieeexplore.ieee.org

... Environmental database gathers Digital Terrain Models, urban Digital Surface Models, 3D ... DTM, ...) in terms of both accuracy and density of reliable data. ...

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[... of unit shaft resistance on in-situ stress: Observations derived from collected field data - group of 4 »](#)

A Shlash Alawneh, OK Nusier, M Al-Kateeb - Geotechnical and Geological Engineering, 2003 - Springer

... database consists of 30 pullout tests, 11 closed-ended steel pipe piles, nine open-ended ... Most of the collected data in Table 1 were obtained from Toolan et al. ...

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M Fernandez, A Morishima, D Suciu - Proceedings of the 2001 ACM SIGMOD international conference ..., 2001 - portal.acm.org

... document, increases. 3.4 SQL generation SilkRoute uses **outer-join** plans to construct queries for **partitioned** relations. The **outer** ...

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LCH Liu, LL Baerenwald, JM Plasek, MS Jende, K ... - US Patent 6,263,331, 2001 - Google Patents

... while the inner table is being **partitioned**, when the partitioning of the inner table is completed, the hybrid hash **join** process searches for **outer** hit rows ...

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BG Lindsay, EJ Shekita - US Patent 6,253,197, 2001 - Google Patents

... Publication: "Hash-Partitioned **Join** Method Using Dynamic Destaging Strategy."

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GM Lohman, MH Pirahesh, EJ Shekita, DE Simmen, MS ... - US Patent 6,112,198, 2000 - Google Patents

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D Chatziantoniou, T Johnson, M Akinde, S Kim - Data Engineering, 2001. Proceedings. 17th International ..., 2001 - ieeexplore.ieee.org

... and Sales .month = month+l. Note that the row count of the result of the **MD-join** is the same as the row count of B (ie, the **MD-join** performs an **outer join**). ...

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